

# USING THE CALCULATOR FOR FUNCTIONS IN THE FET BAND

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**TARGET AUDIENCE:** FET Band Mathematics teachers.

**DURATION:** 2-hour workshop.

**MAXIMUM NO. OF PARTICIPANTS:** 30 participants

## MOTIVATION

Functions form 35% of the Grade 12 paper 1, 45% in Grade 11 and 30% in Grade 10 (CAPS). The calculator can be used to support the calculations needed to draw and interpret the graphs of the functions.

## CONTENT

The calculator will be used to support various aspects of the functions included in the FET CAPS.

- 20 minutes: Intersection of two graphs
- 20 minutes: Turning point and axes of symmetry of quadratic function
- 20 minutes: Intercepts with axes of quadratic function
- 20 minutes: Vertical asymptotes of reciprocal function
- 30 minutes: Equations of the linear, quadratic and exponential function
- 10 minutes: Wrap up

## ABSTRACT

Functions and the graphs of functions form a substantial part of the FET work. Using a calculator can assist learners to understand the features of the functions. In this workshop we will focus on the linear, quadratic and reciprocal function.